

Ag. Waste Application and Excavated Ponds  
Beadle County, South Dakota

(The information in this table indicates the dominant soil condition but does not eliminate the need for onsite investigation. The numbers in the value columns range from 0.01 to 1.00. The larger the value, the greater the limitation.)

Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Ao: Worthing-----	100	Very limited Restricted permeability Ponding Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.40	Somewhat limited Slow refill  Cutbanks cave Salty water	0.95 0.10 0.01
BaA: Beadle-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
BaB: Beadle-----	85	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
BaC: Beadle-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
BdA: Beadle-----	55	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Dudley-----	30	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.06	Very limited Slow refill  Deep to water Salty water Cutbanks cave	1.00 0.90 0.78 0.10
BeD: Betts-----	85	Very limited Slope Restricted permeability Cobble content	1.00 0.30 0.04	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
BfD: Betts-----	45	Very limited Slope Restricted permeability	1.00 0.30	Very limited Deep to water	1.00
Ethan-----	40	Somewhat limited Slope	0.63	Very limited Deep to water	1.00
BnA: Blendon-----	85	Not limited		Very limited Deep to water	1.00
Bo: Bon-----	90	Somewhat limited Flooding	0.60	Very limited Cutbanks cave Deep to water	1.00 0.81
Bx: Bon-----	90	Very limited Flooding	1.00	Somewhat limited Deep to water Cutbanks cave	0.81 0.10
CaA: Carthage-----	85	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Very limited Deep to water	1.00
CaB: Carthage-----	85	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Very limited Deep to water	1.00
CaC: Carthage-----	85	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Very limited Deep to water	1.00
CbA: Carthage-----	50	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Blendon-----	35	Not limited		Very limited Deep to water	1.00
CbB: Carthage-----	55	Somewhat limited Restricted permeability Depth to saturated zone	0.30 0.09	Very limited Deep to water	1.00
Blendon-----	30	Not limited		Very limited Deep to water	1.00
DaB: Davis-----	100	Not limited		Very limited Deep to water	1.00
DeA: Delmont-----	85	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.24	Very limited Deep to water	1.00
DfB: Delmont-----	65	Very limited Depth to dense layer Filtering capacity Droughty	1.00 1.00 0.24	Very limited Deep to water	1.00
Talmo-----	20	Very limited Filtering capacity Droughty Leaching limitation	1.00 0.92 0.45	Very limited Deep to water	1.00
Dg: Doger-----	85	Very limited Filtering capacity Leaching limitation Droughty	1.00 0.45 0.18	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
DkA: Dudley-----	50	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.06	Very limited Slow refill  Deep to water Salty water Cutbanks cave	1.00  0.90 0.78 0.10
Jerauld-----	35	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
DsA: Dudley-----	45	Very limited Restricted permeability Sodium content Runoff limitation Salinity	1.00 1.00 0.40 0.06	Very limited Slow refill  Deep to water Salty water Cutbanks cave	1.00  0.90 0.78 0.10
Stickney-----	35	Very limited Restricted permeability Salinity	1.00 0.50	Somewhat limited Slow refill  Deep to water Salty water Cutbanks cave	0.99  0.90 0.50 0.10
DtA: Dudley-----	55	Very limited Restricted permeability Flooding Sodium content Depth to saturated zone Runoff limitation	1.00 1.00 1.00 0.43 0.40	Very limited Slow refill  Salty water Deep to water Cutbanks cave	1.00  0.78 0.25 0.10
Tetonka-----	20	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill  Cutbanks cave Salty water	0.30  0.10 0.01

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Du: Durrstein-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Sodium content Salinity	1.00  1.00 1.00 1.00 0.50	Very limited Slow refill  Salty water  Cutbanks cave	1.00  0.50 0.10
Eg: Egas-----	85	Very limited Restricted permeability Depth to saturated zone Flooding Salinity Runoff limitation	1.00  1.00 1.00 0.78 0.40	Very limited Slow refill  Salty water  Cutbanks cave	1.00  0.78 0.10
Em: Elsmere-----	85	Very limited Filtering capacity Depth to saturated zone Leaching limitation Restricted permeability	1.00  1.00 0.45 0.30	Very limited Deep to water	1.00
EnA: Enet-----	85	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00
EnB: Enet-----	90	Very limited Filtering capacity	1.00	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
FoA: Forestburg-----	85	Not Rated Not Rated Filtering capacity Leaching limitation Restricted permeability Depth to saturated zone	  1.00 0.45 0.30 0.24	Very limited Deep to water	1.00
FoB: Forestburg-----	85	Not Rated Not Rated Filtering capacity Leaching limitation Restricted permeability Depth to saturated zone	  1.00 0.45 0.30 0.24	Very limited Deep to water	1.00
FrA: Forestburg-----	45	Not Rated Not Rated Filtering capacity Leaching limitation Restricted permeability Depth to saturated zone	  1.00 0.45 0.30 0.24	Very limited Deep to water	1.00
Doger-----	35	Very limited Filtering capacity Leaching limitation Droughty	 1.00 0.45 0.18	Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
FrB: Forestburg-----	50	Not Rated Not Rated Filtering capacity Leaching limitation Restricted permeability Depth to saturated zone	  1.00 0.45 0.30 0.24	Very limited Deep to water	1.00
Doger-----	30	Very limited Filtering capacity Leaching limitation Droughty	 1.00 0.45 0.18	Very limited Deep to water	1.00
Ga: Grat-----	85	Very limited Restricted permeability Depth to saturated zone Filtering capacity Flooding Runoff limitation	 1.00 1.00 1.00 0.60 0.40	Very limited Cutbanks cave	1.00
GbA: Bend-----	90	Not limited		Very limited Deep to water	1.00
GzB: Bend-----	65	Not limited		Very limited Deep to water	1.00
Edwin-----	35	Very limited Sodium content Salinity	 1.00 0.06	Very limited Deep to water	1.00
HaA: Hand-----	50	Not limited		Very limited Deep to water	1.00
Bonilla-----	35	Not limited		Very limited Deep to water	1.00

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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
HaB: Hand-----	55	Not limited		Very limited Deep to water	1.00
Bonilla-----	30	Not limited		Very limited Deep to water	1.00
HbC: Hand-----	50	Not limited		Very limited Deep to water	1.00
Ethan-----	35	Not limited		Very limited Deep to water	1.00
HcB: Houdek-----	90	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HdB: Houdek-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Dudley-----	35	Very limited		Very limited	
		Restricted		Slow refill	
		permeability	1.00		1.00
		Sodium content	1.00	Deep to water	0.90
		Runoff limitation	0.40	Salty water	0.78
		Salinity	0.06	Cutbanks cave	0.10
HeB: Houdek-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	35	Not limited		Very limited Deep to water	1.00
HeC: Houdek-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Ethan-----	40	Not limited		Very limited Deep to water	1.00
HoA: Houdek-----	50	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00



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Map symbol and soil name	Pct. of map unit	Application of manure and food- processing waste		Aquifer-fed excavated ponds	
		Rating class and limiting features	Value	Rating class and limiting features	Value
Prosper-----	35	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
HoB: Houdek-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Prosper-----	30	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Hv: Hoven-----	90	Very limited Restricted permeability	1.00	Somewhat limited Salty water	0.50
		Depth to saturated zone	1.00	Slow refill	0.30
		Ponding	1.00	Cutbanks cave	0.10
		Sodium content	1.00		
		Salinity	0.50		
La: Ladelle-----	85	Somewhat limited Flooding	0.60	Somewhat limited Deep to water	0.90
				Slow refill	0.30
				Cutbanks cave	0.10
Lm: Lamo-----	90	Very limited Depth to saturated zone	1.00	Somewhat limited Slow refill	0.95
		Flooding	0.60	Cutbanks cave	0.10
		Restricted permeability	0.30	Deep to water	0.01
LnA: Lane-----	90	Somewhat limited Restricted permeability	0.89	Very limited Deep to water	1.00
Lo: Loup-----	90	Very limited Depth to saturated zone	1.00	Very limited Cutbanks cave	1.00
		Filtering capacity	1.00		
		Runoff limitation	0.40		
		Droughty	0.12		

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		Rating class and limiting features	Value	Rating class and limiting features	Value
M-W: Miscellaneous Water-	100	Not rated		Not rated	
Mo: Mobridge-----	90	Not limited		Very limited Deep to water	1.00
OkB: Oko-----	90	Very limited Restricted permeability Runoff limitation	1.00 0.40	Very limited Deep to water	1.00
OkD: Oko-----	90	Very limited Restricted permeability Slope Runoff limitation	1.00 1.00 0.40	Very limited Deep to water	1.00
Pg: Orthents, Gravelly--	100	Very limited Slope Filtering capacity Droughty Leaching limitation	1.00 1.00 0.95 0.45	Very limited Deep to water	1.00
PrA: Prosper-----	55	Somewhat limited Restricted permeability	0.30	Very limited Deep to water	1.00
Davison-----	25	Somewhat limited Depth to saturated zone	0.68	Very limited Deep to water	1.00
Sh: Shue-----	85	Very limited Filtering capacity Depth to saturated zone Restricted permeability	1.00 1.00 0.30	Very limited Deep to water	1.00

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		Rating class and limiting features	Value	Rating class and limiting features	Value
Sp: Spottswood-----	85	Very limited Filtering capacity	1.00	Very limited Cutbanks cave Deep to water	1.00 0.81
St: Stickney-----	60	Very limited Restricted permeability Salinity	1.00 0.50	Somewhat limited Slow refill Deep to water Salty water Cutbanks cave	0.99 0.90 0.50 0.10
Jerauld-----	25	Very limited Restricted permeability Sodium content Salinity Runoff limitation	1.00 1.00 0.50 0.40	Very limited Deep to water	1.00
Ta: Tetonka-----	100	Very limited Restricted permeability Ponding Depth to saturated zone Filtering capacity Leaching limitation	1.00 1.00 1.00 1.00 0.50	Somewhat limited Cutbanks cave	0.10
Te: Tetonka-----	75	Very limited Restricted permeability Ponding Depth to saturated zone Leaching limitation	1.00 1.00 1.00 0.50	Somewhat limited Slow refill Cutbanks cave Salty water	0.30 0.10 0.01
Hoven-----	20	Very limited Restricted permeability Depth to saturated zone Ponding Sodium content Salinity	1.00 1.00 1.00 1.00 0.50	Somewhat limited Salty water Slow refill Cutbanks cave	0.50 0.30 0.10

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		Rating class and limiting features	Value	Rating class and limiting features	Value
W: Water-----	100	Not rated		Not rated	
ZeC: Edwin-----	90	Very limited Sodium content Salinity Slope	1.00 0.06 0.04	Very limited Deep to water	1.00

